

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:	)	Confirmation No.: 4124
	)	
Katsumi SHIBAYAMA	)	Group Art Unit: 2814
	)	
Application No.: 10/550,688	)	Examiner: Long Pham
	)	
Filed: July 14, 2006	)	Allowed: April 8, 2008
	)	
For: PHOTODIODE ARRAY AND	)	
PRODUCTION METHOD	)	
THEREOF, AND RADIATION	)	
DETECTOR	)	

**MAIL STOP ISSUE FEE**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**REQUEST FOR ACKNOWLEDGEMENT OF PTO-1449**

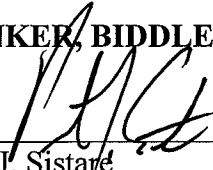
No initialed copies have been received of the enclosed Form PTO-1449, filed on May 7, 2007, March 5, 2007, and July 14, 2006, as shown by the attached copies of our PTO postcard receipts.

Please send an initialized copy evidencing consideration of all listed documents, preferably by facsimile, and if any citation is lined through, please be sure to explain why per MPEP 609.

Thank you.

Respectfully submitted,

**DRINKER, BIDDLE & REATH LLP**

  
\_\_\_\_\_  
Peter J. Sistiare  
Reg. No. 48,183

Dated: April 25, 2008

**CUSTOMER NO. 055694**  
**DRINKER, BIDDLE & REATH LLP**  
1500 K Street, N.W., Suite 1100  
Washington, D.C. 20005-1209  
Tel: (202) 842-8800  
Fax: (202)-204-0289

Suite 1100  
1500 K Street, N.W.  
Washington, DC 20005-1209  
202-842-8800 Phone  
202-842-8465/66 Fax

The official date stamp of the United States Patent and Trademark Office hereon is acknowledgment of the receipt of:

## I. Application

- ☐ A. New Application
  - ☐ Provisional
  - ☐ Utility
  - ☐ Design
  - ☐ Plant
- ☐ B. Continuation/Divisional/Continuation-In-Part
  - ☐ § 1.53(b)
  - ☐ § 1.53 (f) – fee not included
- ☐ C. Specification: \_\_\_\_\_ Sheet(s)
- ☐ D. \_\_\_\_\_ Claim(s)
- ☐ E. \_\_\_\_\_ Drawing(s)
  - ☐ Formal
  - ☐ Informal
- ☐ F. Small Entity
- ☐ G. Combined Declaration & Power of Attorney

## II. Prosecution Documents

- ☐ A. Amendment Transmittal
- ☐ B. Amendment
- ☐ C. Notice of Appeal
- ☐ D. Exhibit A
- ☒ E. Information Disclosure Statement
  - ☒ PTO Form 1449, with two documents attached
  - ☒ European Search Report dated April 2, 2007
- ☐ F. Issue Fee
  - ☐ Form PTOL-85
  - ☐ Request for \_\_\_\_\_ Soft Copies

## III. Post Issuance

- ☐ A. \_\_\_\_\_ Maintenance Fee
- ☐ B. Request for Correction of Letters Patent

## IV. Recordation

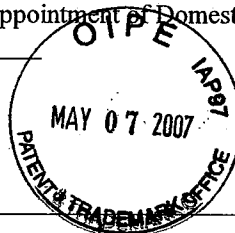
- ☐ A. Assignment Agreement (Number of Patents Covered: \_\_\_\_\_)
- ☐ B. Security Interest Agreement (Number of Patents Covered: \_\_\_\_\_)
- ☐ C. Change of Name, Merger or Other Transfer Document (Number of Patents Covered: \_\_\_\_\_)
- ☐ D. PTO Recordation Form Cover Sheet

## VI. Payment

- ☐ Check No. \_\_\_\_\_ for \$ \_\_\_\_\_
- ☐ Deposit Account No. \_\_\_\_\_ for \$ \_\_\_\_\_

## VII. Other

- ☐ A. Terminal Disclaimer
- ☐ B. Statement under 37 CFR § 3.73(b)
- ☐ C. Change of Correspondence Address
- ☐ D. Submission of Revocation of Original Power of Attorney and Grant of New Power of Attorney
- ☐ E. Appointment of Domestic Representative
- ☐ F. \_\_\_\_\_



Date:  
Attorney Docket No./File No.:  
Matter No.:  
Title:  
Inventor(s):  
Application/Patent. No.:  
Attorney:  
Secretary:

May 7, 2007  
46884-5428  
216215  
PHOTODIODE ARRAY AND PRODUCTION METHOD THEREOF, AND RADIATION DETECTOR  
Katsumi SHIBAYAMA  
10/550,688  
Paul A. Fournier  
Karen Ashton

57107  
RJ

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Katsumi SHIBAYAMA	)	Confirmation No.: 4124
	)	
Application No.: 10/550,688	)	Group Art Unit: 2814
	)	
Filed: July 14, 2006	)	Examiner: Long Pham
	)	
For: PHOTODIODE ARRAY AND	)	
PRODUCTION METHOD THEREOF,	)	
AND RADIATION DETECTOR	)	

Commissioner for Patents  
U.S. Patent and Trademark Office  
**Customer Window, Mail Stop Amendment**  
Alexandria, VA 22314

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached PTO Form 1449. To the best of the undersigned's knowledge, this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application. Accordingly, Applicant does not believe that a fee is due for filing this paper.

A European Search Report dated April 2, 2007 that issued in a European patent application and having documents cited therein is attached for the Examiner's consideration. Cited documents are listed on the attached PTO Form 1449 and are also attached hereto.

While the European Search Report dated April 2, 2007 additionally cites to JP 2003-86827, JP 2003-86826, JP 5-121711, and JP 11-297975, these documents are not listed on the

attached PTO Form 1449 because they were previously cited in an Information Disclosure Statement in this application on July 14, 2006.

The relevance of the attached foreign language document can be understood from the attached English-language abstract, and/or from the citation of this document in the attached European Search Report dated April 2, 2007. Applicant respectfully requests that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached PTO Form 1449.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior art." If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the Office the relevant facts and law regarding the appropriate status of such document.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over any of the listed documents, should any of the documents be applied against the claims of the present application.

**EXCEPT** for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. § 1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0573.

This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSIONS OF TIME** in accordance with 37 C.F.R. § 1.13(a)(3).

Respectfully submitted,

**DRINKER, BIDDLE & REATH LLP**

Dated: May 7, 2007

By:



Paul A. Fournier

Registration No. 41,023

**Customer No. 055694**

**DRINKER, BIDDLE & REATH LLP**

1500 K Street, N.W. Suite 1100

Washington, D.C. 20005-1209

Tel: (202) 842-8800

Fax: (202) 842-8465

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Page 1 of 1

PTO Form 1449

Attorney Docket No.

46884-5428

Applicant(s):

Katsumi SHIBAYAMA

Filing Date:

July 14, 2006

Application No.:

10/550,688

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Sub. Class	Translation <u>YES NO</u>
	57-42175	March 9, 1982	Japan			Abstract
	I 548 836	June 29, 2005	Europe			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


## Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# DrinkerBiddle&Reach L L P

Suite 1100  
1500 K Street, N.W.  
Washington, DC 20005-1209  
202-842-8800 Phone  
202-842-8465/66 Fax

The official date stamp of the United States Patent and Trademark Office hereon is acknowledgment of the receipt of:

## I. Application

- ☐ A. Application Transmittal
  - ☐ Provisional
  - ☐ Utility
  - ☐ Design
  - ☐ Plant
- ☐ B. Continuation/Divisional/Continuation-In-Part
  - ☐ § 1.53(b)
  - ☐ § 1.53 (f) – fee not included
- ☐ C. Specification:
  - \_\_\_\_\_ Sheet(s)
- ☐ D. \_\_\_\_\_ Total Claim(s)
- ☐ E. \_\_\_\_\_ Sheets of Drawing(s)
  - ☐ Formal
  - ☐ Informal (containing \_\_\_\_\_ Figures)
- ☐ F. Small Entity
- ☐ G. Combined Declaration & Power of Attorney

## II. Prosecution Documents

- ☐ A. Notice of Appeal
- ☐ B. Preliminary Amendment
- ☐ C. Claim to Priority & Priority Document(s)
- ☒ D. Information Disclosure Statement
  - ☒ PTO Form 1449 – One (1) page
  - ☒ One (1) Non-U.S. Reference
  - ☒ Japanese Office Action dated December 19, 2006
- ☐ E. Issue Fee
  - ☐ Form PTOL-85
  - ☐ Request for \_\_\_\_\_ Soft Copies
- ☐ F. Formal Drawing(s): \_\_\_\_\_ Sheet(s)

## III. Post Issuance

- ☐ A. \_\_\_\_\_ Maintenance Fee
- ☐ B. Request for Correction of Letters Patent

## IV. Recordation

- ☐ A. Assignment Agreement (Number of Patents Covered: \_\_\_\_\_)
- ☐ B. Security Interest Agreement (Number of Patents Covered: \_\_\_\_\_)
- ☐ C. Change of Name, Merger or Other Transfer Document (Number of Patents Covered: \_\_\_\_\_)
- ☐ D. PTO Recordation Form Cover Sheet

## VI. Payment

- ☐ Check No. \_\_\_\_\_ for \$ \_\_\_\_\_ for IDS Fee
- ☐ Fee Transmittal PTO/SB/17
- ☐ Deposit Account No. \_\_\_\_\_ for \$ \_\_\_\_\_

## VII. Other

- ☐ A. Transmittal Letter (\_\_\_\_\_ pages)
- ☐ B. Power of Attorney
- ☐ C. Appointment of Domestic Representative
- ☐ D. Change of Correspondent's Address



Date: March 5, 2007  
Client No.: 46884  
Attorney Docket No./File No.: 46884-5428  
Matter No.: 216215  
Title: Photodiode Array and Production Method Thereof, and Radiation Detector  
Inventor(s): Katsumi SHIBAYAMA  
Application/Patent No. 10/550,688  
Attorney: John G. Smith  
Confirmation No. 4124  
Secretary: Carolyn H. Merica

3501

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

<b>In re Application of:</b>	)	
	)	
Katsumi SHIBAYAMA	)	<b>Examiner:</b> Unassigned
	)	
<b>Application No.:</b> 10/550,688	)	<b>Group Art Unit:</b> 2811
	)	
<b>Filed:</b> September 26, 2005	)	<b>Confirmation No.:</b> 4124
	)	
<b>Title:</b> PHOTODIODE ARRAY AND	)	
PRODUCTION METHOD THEREOF, AND	)	
RADIATION DETECTOR	)	

Commissioner of Patents  
U.S. Patent and Trademark Office  
Customer Window  
Alexandria, VA 22314

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the document listed on the attached PTO Form 1449. To the best of the undersigned's knowledge, this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application. Accordingly, Applicant does not believe that a fee is due for filing this paper.

A Japanese Office Action dated December 19, 2006 that issued in a Japanese patent application and having a document cited therein is attached for the Examiner's consideration. The cited document is listed on the attached PTO Form 1449 and a copy of the cited document is also attached hereto.

The relevance of the attached foreign language document can be understood from the attached English-language abstract also enclosed. Applicant respectfully requests that the

Examiner consider the listed document and evidence that consideration by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior art." If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the Office the relevant facts and law regarding the appropriate status of such document.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over any of the listed documents, should any of the documents be applied against the claims of the present application.

**Except** for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this Application, including fees due under 37 C.F.R. § 1.16 and 1.17 which may be required and including any required extension of time fees, *or* credit any overpayment to Deposit Account No. 50-0573. This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSION OF TIME** in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

**DRINKER BIDDLE & REATH LLP**

  
John G. Smith, Reg. No. 33,818

Dated: March 5, 2007

**CUSTOMER NO. 055694**  
**DRINKER, BIDDLE & REATH LLP**  
1500 K Street, N.W., Suite 1100  
Washington, D.C. 20005-1209  
Tel: (202) 842-8800 Fax: (202) 204-0289

[illegible]

# DrinkerBiddle&Reath

A Pennsylvania Limited Liability Partnership L L P

Suite 1100

1500 K Street, N.W.

Washington, DC 20005-1209

202-842-8800 Phone

202-842-8465/66 Fax

The official date stamp of the United States Patent and Trademark Office hereon is acknowledgment of the receipt of:

## I. Application

- ☐ A. Application Transmittal
- ☐ Provisional
- ☐ Utility
- ☐ Design
- ☐ Plant
- ☐ B. Continuation/Divisional/Continuation-In-Part
- ☐ § 1.53(b)
- ☐ § 1.53 (f) – fee not included
- ☐ C. English Translation of Specification: \_\_\_\_\_ Sheet(s) (Plus Translation Verification Sheet)
- ☐ D. \_\_\_\_\_ Total Claim(s)
- ☐ E. \_\_\_\_\_ Sheets of Drawing(s) (containing \_\_\_\_\_ Figures)
- ☐ F. Small Entity
- ☒ G. Combined Declaration & Power of Attorney

## II. Prosecution Documents

- ☐ A. Notice of Appeal
- ☒ B. Preliminary Amendment
- ☐ C. Claim to Priority & Priority Document(s)
- ☒ D. Information Disclosure Statement
- ☒ PTO Form 1449 – Including (5 references)

## III. Post Issuance

- ☐ A. \_\_\_\_\_ Maintenance Fee
- ☐ B. Request for Correction of Letters Patent

## IV. Recordation

- ☒ A. Assignment
- ☐ B. Security Interest Agreement (Number of Patents Covered: \_\_\_\_\_)
- ☐ C. Change of Name, Merger or Other Transfer Document (Number of Patents Covered: \_\_\_\_\_)
- ☒ D. PTO Recordation Form Cover Sheet

## VI. Payment

- ☒ Check No. 36629 for \$170.00
- ☐ Fee Transmittal PTO/SB/17
- ☐ Deposit Account No. \_\_\_\_\_ for \$ \_\_\_\_\_

## VII. Other

- ☒ A. Response to Notification to File Missing Requirements
- ☒ B. Copy of Notification to File Missing Requirements
- ☒ C. International Preliminary Examination Report on Patentability
- ☒ D. PCT/ISA/210 (International Search Report dated June 22, 2004)

Date:

July 14, 2006

Client No.:

46884

Attorney Docket No./File No.:

46884-5428

Matter No.:

216215

Title:

PHOTODIODE ARRAY AND PRODUCTION METHOD THEREOF, AND RADIATION DETECTOR

Inventor(s):

Katsumi SHIBAYAMA

Application/Patent No.

10/550,688

Attorney:

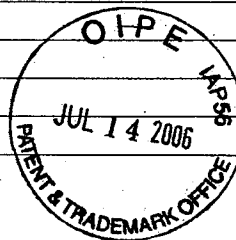
Peter J. Sistare

Confirmation No.

4124

Secretary:

Eileen Ferrier



DOCKETED

BY WJ DATE 7/14/06

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Katsumi SHIBAYAMA	)	Confirmation No.: 4124
	)	
Application No.: 10/550,688	)	Group Art Unit: Unassigned
	)	
Filed: September 26, 2005	)	Examiner: Unassigned
	)	
For: PHOTODIODE ARRAY AND PRODUCTION	)	
METHOD THEREOF, AND RADIATION	)	
DETECTOR	)	

Commissioner for Patents  
U.S. Patent and Trademark Office

Customer Window Mail Stop: ☐ New Application ☒ Amendment ☐ AF ☐ Issue Fee  
Alexandria, VA 22314

Sir:

**INFORMATION DISCLOSURE STATEMENT (IDS)**

☒ **Under 37 C.F.R. § 1.97(b):** Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached PTO Form 1449. To the undersigned's knowledge, this IDS is being filed before the mailing date of a first Office Action on the merits, before the mailing date of a first Office Action on the merits after filing an RCE under § 1.114, or within three months of the application filing date.

☐ **Under 37 C.F.R. § 1.97(c):** Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicant brings to the attention of the Examiner the documents listed on the attached PTO Form 1449. This IDS is being filed after the events recited in § 1.97(b) but, to the undersigned's knowledge, before the mailing date of a Final Office Action, a Notice of Allowance, or another action that closes prosecution in the application.

☐ The fee of \$180.00 set forth in § 1.17(p) is included herein; or

☐ Applicant submits that each item of information contained in this IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS.

☐ **Under 37 C.F.R. § 1.97(d):** Pursuant to 37 C.F.R. §§ 1.56 and 1.97(d), Applicant brings to the attention of the Examiner the documents listed on the attached PTO Form 1449. This IDS is being filed after the events recited in § 1.97(c) but before payment of the issue fee.

☐ The fee of \$180.00 set forth in § 1.17(p) is included herein; and

☐ Applicant submits that each item of information contained in this IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS.

☐ **Under 37 C.F.R. § 1.97(i):** Pursuant to 37 C.F.R. §§ 1.56 and 1.97(i), Applicant brings to the attention of the Examiner the documents listed on the attached PTO Form 1449. This IDS is being filed after the events recited in § 1.97(d). Applicant requests that the IDS be placed in the file.

☒ A search report or other listing of documents from a counterpart, related, or other application dated June 22, 2004 and having documents cited thereon is attached for the Examiner's consideration. Any of these documents not previously cited, and any additional documents are listed on the PTO Form 1449.

☒ Applicant respectfully requests that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form. As for any document listed on the accompanying PTO-1449 that is in a language other than English, relevance can be understood from an enclosed English abstract or at least partial translation or from mention in the specification or in a search report for a corresponding application.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that any of the listed documents are material or constitute "prior art." If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should any of the documents be applied against the claims of the present application.

Except for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this Application, including fees due under 37 C.F.R. § 1.16 and 1.17 which may be required and including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0573. This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF TIME in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

**DRINKER, BIDDLE & REATH LLP**



Peter J. Sistare

Registration No. 48,183

Dated: July 14, 2006

**CUSTOMER NO. 055694**  
**DRINKER, BIDDLE & REATH LLP**  
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 Washington, D.C. 20005-1209  
 Tel: 202.842.8800; Fax: 202.842.8465

